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P.	Application No.	Applicant(s)
Nation of Allowability	10/609,185	HORCH ET AL.
Notice of Allowability	Examiner	Art Unit
	Cuong Q Nguyen	2811
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicating IGHTS. This application is subjection.	application. If not included tion will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are 1-18.		
3. $\boxtimes$ The drawings filed on <u>26 June 2003</u> are accepted by the E	xaminer.	·
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. </li> </ul>	e been received. e been received in Application No cuments have been received in the communication to file a refENT of this application.	o his national stage application from the ply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
<ul> <li>6. CORRECTED DRAWINGS ( as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date</li></ul>	son's Patent Drawing Review ( Posteria).  s Amendment / Comment or in the drawing should be written on the drawing to 37 CFR 1.1  sit of BIOLOGICAL MATERIA	ne Office action of awings in the front (not the back) of 121(d). AL must be submitted. Note the
<ul> <li>Attachment(s)</li> <li>1. ⋈ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ⋈ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 06-26-03</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview Summ Paper No./Mail 08), 7. ☒ Examiner's Ame	Date

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Art Unit: 2811

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## **DETAILED ACTION**

## **Examiner's Amendment**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. Non-elected claims 19-57 have been canceled due to election without traverse on 06-29-04.

## **Reason for Allowance**

- 2. Claims 1-18 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Prior art do not teach or render obvious a semiconductor device and a memory device has an arrangement as claimed in claims 1 and 10 such as "epitaxial material on the cathode and/or anode-emitter regions of the layer of semiconductor material; the epitaxial material offset laterally from and clear of the junction of the anode and/or cathode emitter regions at the surface of the layer of semiconductor material" (claim 1) and "a raised provision of semiconductor material on the layer of semiconductor material as a raised portion of at least one of the anode-emitter and cathode-emitter; the raised portion of the anode-emitter comprising sidewalls that define at least in part an outline at the surface of the layer of semiconductor material and spaced laterally from the second base region" (claim 10).
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

- 5. Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 872-9306. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.
- 6. Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to CUONG Q NGUYEN whose telephone number is (571) 272-1661. The Examiner is in the Office generally between the hours of 6:30 AM to 5:00 PM (Eastern Standard Time) Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee, can be reached on (571) 2721732

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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Cuong Nguyen

Primary examiner

September 2, 2004